

What Is Claimed Is:

1. A bicycle drive unit that moves forward and backward and idles upon clockwise and counterclockwise pedaling, comprising:

5        a drive shaft 1 having one end located in an inner bearings B1 of an internal bearing housing H1 integrally formed with a rotary plate 5 and the other end fixed to a clockwise one-way clutch C1 and the inner wheel of a counterclockwise one-way clutch C2 by means of a sunk key 2;

10      a counterclockwise one-way clutch C2 having a central gear 7 press-fitted on its outer wheel, wherein a plurality of turnabout gears 8 engaged with the central gear 7 are coupled to the rotary plate 5 by means of a fixed pin 9;

15      a ring gear 10 engaged with the turnabout gear 8 and having a chain sprocket 4 attached on its outer circumference;

          a flange 23 connected to a ring gear 10 by means of a locking screw 22 and having an inner circumference press-fitted into the outer wheel of the clockwise one-way clutch C1;

20      a bearing housing of a dual structure consisting of an outer bearing housing H2 having outer bearings B2, wherein the outer bearings B2 are rotated together with the internal bearing housing H1 in a backward movement;

          a brace 17 attached to the outer circumference of the

outer bearing housing B2 by means of the locking screw 22;

a detent pin unit for curving the internal bearing housing H1 and the rotary plate 5, wherein the detent pins 11 within the detent pin guide 13 is introduced into the detent plate 16 attached to the internal bearing housing H1 by means of the return spring 12 as the hand lever 19 is relaxed; and

a bicycle backward movement control unit having a hand lever 19 and a detent latch 20, wherein the hand lever 19 is connected to the detent pins 11 by means of a steel wire 18 and is fixed to a steering handle tube 30 by means of a clamp 21, and the detent latch 20 is attached to the hand lever 19.

2. The bicycle drive unit as claimed in claim 1, wherein the detent plate 16 is machined into the rotary plate 5 with a plurality of detent grooves 16a included therein,

the brace 17 is attached to the outer circumference of the outer bearing housing H2 by means of the locking screw 22 so that the detent pins 11 is inserted into the detent grooves 16a, and

the return spring 12 assembled to the brace 17 is located in the direction of the rotary plate 5.